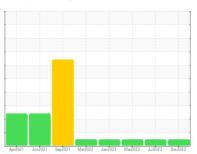


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id Component **Diesel Engine**

PETRO CANADA DURON SHP 15W40 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the

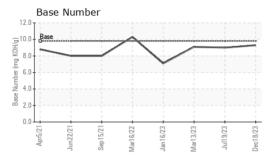
Fluid Condition

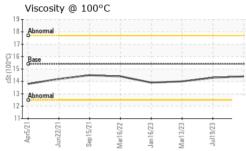
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

0.4.4.5.			lun2021 Sep2021 Mar20	22 Jan2023 Mar2023 Jul2023	Dec2023		
SAMPLE INFO	DRMATION	method	limit/base	current	history1	history2	
Sample Number		Client Info		GFL0105750	GFL0086642	GFL0073857	
Sample Date		Client Info		18 Dec 2023	19 Jul 2023	13 Mar 2023	
Machine Age	hrs	Client Info		15541	15405	14180	
Oil Age	hrs	Client Info		15405	14180	13904	
Oil Changed		Client Info		Not Changd	Changed	Changed	
Sample Status				NORMAL	NORMAL	NORMAL	
CONTAMINA	ATION	method	limit/base	current	history1	history2	
Fuel		WC Method	>3.0	<1.0	<1.0	<1.0	
Water		WC Method	>0.2	NEG	NEG	NEG	
Glycol		WC Method		NEG	NEG	NEG	
WEAR META	ALS	method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m	>200	<1	78	27	
Chromium	ppm	ASTM D5185m	>20	0	4	4	
Nickel	ppm	ASTM D5185m	>2	0	0	0	
Titanium	ppm	ASTM D5185m	>2	0	<1	0	
Silver	ppm	ASTM D5185m	>2	0	<1	0	
Aluminum	ppm	ASTM D5185m	>30	1	12	7	
Lead	ppm	ASTM D5185m	>30	0	0	0	
Copper	ppm	ASTM D5185m	>30	11	5	6	
Tin	ppm	ASTM D5185m	>15	<1	<1	<1	
Vanadium	ppm	ASTM D5185m		0	0	0	
Cadmium	ppm	ASTM D5185m		0	<1	0	
ADDITIVES		method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m	0	15	4	7	
Barium	ppm	ASTM D5185m	0	0	0	0	
Molybdenum	ppm	ASTM D5185m	60	58	55	54	
Manganese	ppm	ASTM D5185m	0	<1	1	2	
Magnesium	ppm	ASTM D5185m	1010	880	923	851	
Calcium	ppm	ASTM D5185m	1070	948	1071	1166	
Phosphorus	ppm	ASTM D5185m	1150	972	994	922	
Zinc	ppm	ASTM D5185m	1270	1175	1240	1197	
Sulfur	ppm	ASTM D5185m	2060	2993	3622	3031	
CONTAMINA	ANTS	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>30	8	24	11	
Sodium	ppm	ASTM D5185m		0	2	18	
Potassium	ppm	ASTM D5185m	>20	2	2	13	
INFRA-RED		method	limit/base	current	history1	history2	
Soot %	%	*ASTM D7844	>3	0.1	0.1	0.3	
Nitration	Abs/cm	*ASTM D7624	>20	4.4	5.9	7.0	
Sulfation	Abs/.1mm	*ASTM D7415	>30	17.6	18.7	19.7	
FLUID DEGRADATION method limit/base current history1 history2							
Oxidation	Abs/.1mm	*ASTM D7414	>25	13.1	14.6	15.6	
Base Number (BN		ASTM D2896		9.3	9.0	9.1	
(DI	,						



OIL ANALYSIS REPORT

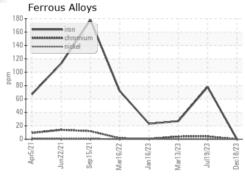


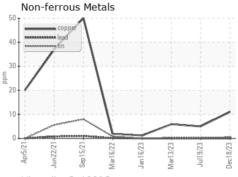


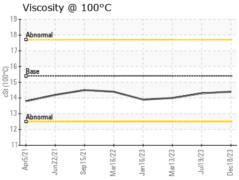
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

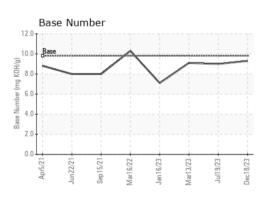
FLUID PROPERTIES		method				history2	
Visc @ 100°C	cSt	ASTM D445	15.4	14.4	14.3	14.0	

GRAPHS













Laboratory Sample No. Lab Number Unique Number : 10795684

: GFL0105750 : 06040455

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Recieved

: 20 Dec 2023 Diagnosed : 21 Dec 2023

Diagnostician : Don Baldridge Test Package : FLEET (Additional Tests: FT-IR(Diff))

To discuss this sample report, contact Customer Service at 1-800-237-1369. * - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

GFL Environmental - 415 - Michigan East

6200 Elmridge Sterling Heights, MI US 48313 Contact: Frank Wolak fwolak@gflenv.com

T: (586)825-9514

Submitted By: Frank Wolak